INDöKöTE
INDUSTRIAL COATINGS BY NIPPON PAINT

NIPPON PAINT

Technical Data sheet

Nippopoxy 710ZR

Product Description

Nippopoxy 710ZR is a two component high solid, metallic zinc rich epoxy primer to provide excellent corrosion resistance as single coat or as high performance coating system. It contains 85% zinc in dry film by weight. Highly suitable for carbon steel, repair of inorganic zinc silicate coating and damaged galvanised steel substrates.

Recommended Use

Nippopoxy 710ZR is recommended as a high performance primer to give maximum protection as part of any anti-corrosive coating system for aggressive environments such as offshore environments, refineries, power plants, bridges, buildings, mining equipment etc. Nippopoxy 710ZR showcase superior performance in adhesion and cathodic protection as compared to other zinc rich epoxy coatings.

Physical Properties

Composition : Epoxy Resin cured with polyamide and pigmented with zinc dust

Volume Solids	: 45 ± 2%	**Temperature Resistance :**	
Mixing Ratio: Base: catalyst	: 3:1 (ByV/V)	Continuous	: 120^0 C
Pot Life:	: Min. 4 Hours	Intermittent	: 150^0 C
Application	: Flow/Airless spray/Convetinal spra	**Weatherability**	: Excellent with proper system
Recommended DFT	: 40-60 µ's per coat	**Flexibility**	: Moderate
Recommended WFT	: 89 - 133 µ's per coat	**Abrasion Resistance**	: Excellent
Theoretical Spreading Rate	: 7.5 - 11.25 m^2/ ltr	**Colour**	: Grey
Drying Time :		**Finish**	: Matt
Surface Dry	: Max. 30 min @ 30^{0}C	**Packing** .	: 20 Ltrs combi
Tack Free	: Max. 90 minutes@30^{0}C	**Thinner**	: Thinner 1501
Hard dry	: 8-10 Hours@30^{0}C	**Chemic resistanace:**	
Overcoating Interval :		**Acid & Alkali**	Very good with intermediate and top Coat
MIN.	: 8 Hours	**Oil resistance**	Very good with intermediate and top Coat
MAX.	: 15 days	**Solvent Resistance**	Very good with intermediate and top Coat

Storage Life : Upto 12 months when kept under sealed and controlled condition.

Surface Preparation

All surfaces should be clean, dry and free from contamination. The surface should be assessed and treated in accordance with ISO 8504. Oil or grease should be removed in accordance with SSPC-SP1 solvent cleaning. Damaged Area Damage area should be prepared with abrasive blast cleaning to Sa 2½ (ISO 8501-1:2007).

Appliaction Details

Stir the component A and B separately and then mix the base and Hardener as per the recommended mixing ratio. Mix the paint properly after the addition of base and Hardener and allow it to mature for 10-15 minutes and stir again before use and during application. For **conventional Spray** Add thinner 1501 20-40% to get a proper application pattern. **Brush:** Apply preferably without thinning. However, if required during application, add up to 5% Thinner 1501. Brushing is recommended for stripe coat and touch-up of critical areas.

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For Airless Spray : Tip Size : 0.017" – 0.031"
Pressure at Nozzle : 180 – 200 kg/cm2
Thinner Intake: 5-15%

Recommended system:

Intermediate Coat:

1. Indopoxy 645 MIO
2. Nippopoxy 680HS MIO
3. Epoxy Mastic - Indopoxy 690HSHB / Nippopoxy 692HSHB

Finish Coat:

1. Nippothane 1070
2. Nippothane 4080HB
3. Nippothane 1066HS

Precautions

1. Do not apply in rain, fog or mist and when the surface temperature is 50^0C and above.
2. Material should be used under speculate pot life.
4. The spray machine hose and paint storage equipement should clean with thinner 1501 to avoid blockage and damage.
3. Below 10^0 C and above 85% Relative humidity appliaction should be avoided. It creates paint defect.
5. application should be avoided when substrate temperature is less than 3^0C than the dew point temperature

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